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(30) Priority Data: 08/302,154 8 September 1994 US (08.09.94)	(54) Title: ACETIC ANHYDRIDE ACTIVATION FOR C-TERMINAL PROTEIN SEQUENCING		
(71) Applicant: THE PERKIN-ELMER CORPORATION [US/US]; Applied Biosystems Division, Legal Dept., 850 Lincoln Center Drive, Foster City, CA 94404 (US).	(57) Abstract		
(72) Inventors: BOYD, Victoria, L.; 199 Fir Street, San Carlos, CA 94070 (US). BOZZINI, MeriLisa; Apartment G., 80 El Camino Real, Burlingame, CA 94010 (US). LOUDON, G., Marc; 2140 Happy Hollow Road, West Lafayette, IN 47906-1705 (US).	A method is provided for C-terminal sequencing of a protein or peptide. An important feature of the method is the formation of an oxazolone moiety at the C-terminus of a protein or peptide by treatment with acetic anhydride under basic conditions followed by conversion of the oxazolone to a thiohydantoin moiety by treatment with thiocyanate under acidic conditions. Yields of thiohydantoin are further enhanced by delivering thiocyanate as the conjugate acid of a sterically hindered alkylammonium cation.		
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(81) Designated States: AU, CA, JP, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).			
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(21) Int. Application Number: PCT/US95/11333	(51) International Patent Classification <sup>6</sup> :	A1	(11) Int. Publication Number: WO 96/07917
(22) Int. Filing Date: 6 September 1995 (06.09.95)	G01N 35/00, C12P 19/34, C12M 1/00		(43) Int. Publication Date: 14 March 1996 (14.03.96)
(30) Priority Data: 08/304,657 9 September 1994 US (09.09.94)	(54) Title: AUTOMATED MOLECULAR BIOLOGICAL DIAGNOSTIC SYSTEM		
(71) Applicant: NANOGEN [US/US]; 10398 Pacific Center Court, San Diego, CA 92121 (US).	(57) Abstract		
(72) Inventors: HELLER, Michael, J.; 1614 Hawk View Drive, Encinitas, CA 92024 (US). TU, Eugene; 3527 Lark Street, San Diego, CA 92103 (US). MONTGOMERY, Donald, D.; 836 West Pennsylvania #315, San Diego, CA 92103 (US). BUTLER, William, F.; 7577 Caloma Circle, Carlsbad, 92009 (US).	Self-addressable, self-assembling microelectronic system for performing molecular diagnosis, analysis, multi-step and multiplex reactions in microscopic formats. Actively controlled reactions include nucleic acid hybridization, immunoassays, clinical diagnosis and multi-step combinatorial biopolymer synthesis. Controller interfaces with user via input/output devices preferably including a graphical display. The controller may interface with a power supply and interface, the interface providing selective connection to individual microlocations, polarity reversal, and selective potential or current levels to individual electrodes. A combined system for performing DNA sample preparation, hybridization, detection and data analysis integrates multiple steps. Charged materials are transported preferably by free field electrophoresis. DNA complexity reduction is preferably achieved by binding DNA to a support, cleaving unbound materials such as by restriction enzymes, and transporting the cleaved fragments. Active, programmable matrix devices include a square matrix pattern with fanned out electrical connections and optional electrical connections beneath specific microlocations resulting in a highly automated DNA diagnostic system.		
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(81) Designated States: AU, BR, CA, CN, FI, JP, NZ, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).			
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